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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 2

Complete if Known	
Application Number	10/720,361
Filing Date	November 24, 2003
First Named Inventor	Peter F. Corbett et al.
Group Art Unit	Not yet assigned
Examiner Name	Not yet assigned
Attorney Docket Number	112056-0141

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	U.S. Patent Document Number	Kind Code[2] (*if known*)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
BOB		10/035,607		CORBETT et al.	12/28/2001	
		10/700,227		KLEIMAN et al.	11/03/2003	
		10/720,364		CORBETT et al.	11/24/2003	
↓		10/215,917		PAWLOWSKI et al.	08/09/2002	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Office[3]	Number[4]	Kind Code[5] (*if known*)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]

Examiner Signature	Bruce R. Bomp	Date Considered	6/12/06

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[1] Unique citation designation number. [2] See attached Kinds of U.S. Patent Documents. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

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Sheet 2 of 2

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BPB		PATTERSON, DAVID A., et al., "A Case for Redundant Arrays of Inexpensive Disks (RAID)", Computer Science Division, Department of Electrical Engineering and Computer Sciences, University of California, Berkeley, CA, ACM 1988, Pgs. 109-116	

Examiner Signature	Bruce P. Bonzo	Date Considered	6/12/06

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BPB	1	Re. 34,100		Hartness	10-13-1992	
	2	3,876,978		Bossen et al.	04-08-1975	
	3	4,092,732		Ouchi	05-30-1978	
	4	4,201,976		Patel	05-06-1980	
	5	4,205,324		Patel	05-27-1980	
	6	4,375,100		Tsuji et al.	02-22-1983	
	7	4,467,421		White	08-21-1984	
	8	4,517,663		Imazeki et al.	05-14-1985	
	9	4,667,326		Young et al.	05-19-1987	
	10	4,688,221		Nakamura et al.	08-18-1987	
	11	4,722,085		Flora et al.	01-26-1988	
	12	4,755,978		Takizawa et al.	07-05-1988	
	13	4,761,785		Clark et al.	08-02-1988	
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	15	4,796,260		Schilling et al.	01-03-1989	
	16	4,817,035		Timsit	03-28-1989	
	17	4,825,403		Gershenson et al.	04-25-1989	
	18	4,837,680		Crockett et al.	06-06-1989	
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	20	4,849,929		Timsit	07-18-1989	
	21	4,849,974		Schilling et al.	07-18-1989	
	22	4,849,976		Schillling et al.	07-18-1989	
	23	4,870,643		Bultman et al.	09-26-1989	
	24	4,899,342		Potter et al.	02-06-1990	
	25	4,989,205		Dunphy, Jr. et al.	01-29-1991	
	26	4,989,206		Dunphy, Jr. et al.	01-29-1991	
	27	5,077,736		Dunphy, Jr. et al.	12-31-1991	
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	29	5,101,492		Schultz et al.	03-31-1992	
	30	5,128,810		Halford	07-07-1992	
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	32	5,163,131		Row et al.	11-10-1992	
	33	5,166,936		Ewert et al.	11-24-1992	
	34	5,179,704		Jibbe et al.	01-12-1993	
	35	5,202,979		Hillis et al.	04-13-1993	

Examiner Signature	Bruce P. Bogga	Date Considered	6/12/06

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Sheet 2 of 6

Complete If Known	
Application Number	10/720,361
Filing Date	November 24, 2003
First Named Inventor	Peter F. Corbett et al.
Group Art Unit	Not yet assigned
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Attorney Docket Number	112056-0141

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BPB	36	5,208,813		Stallmo	05-04-1993	
	37	5,210,860		Pfeffer et al.	05-11-1993	
	38	5,218,689		Hotle	06-08-1993	
	39	5,233,618		Glider et al.	08-03-1993	
	40	5,235,601		Stallmo et al.	08-10-1993	
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	42	5,257,367		Goodlander et al.	10-26-1993	
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	52	5,862,158		Baylor et al.	01-19-1999	
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	56	6,158,017		Han et al.	12-05-2000	
	57	6,223,300	B1	Gotoh	04-24-2001	
	58	6,532,548	B1	Hughes	03-11-2003	
	59	6,581,185	B1	Hughes	06-17-2003	

Examiner Signature	Bruce P. Bomar	Date Considered	6/12/06

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Sheet 3 of 6

Complete If Known	
Application Number	10/720,361
Filing Date	November 24, 2003
First Named Inventor	Peter F. Corbett et al.
Group Art Unit	Not yet assigned
Examiner Name	Not yet assigned
Attorney Docket Number	112056-0141

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
BPB	60	ANVIN, PETER H, "*The Mathematics of RAID 6,*" December 2004	
	61	Auspex 4Front NS2000, System Architecture, Network-Attached Storage For a New Millennium, Auspex Engineering Technical Report 24, January 1999	
	62	BESTAVROS, AZER, ET AL., *Reliability and Performance of Parallel Disks,* Technical Memorandum 45312-891206-01TM, AT&T, Bell Laboratories, Department 45312, Holmdel, NJ, December 1989	
	63	BITTON, DINA, *Disk Shadowing,* Proceedings of the 14th VLDB Conference, LA, CA (1988)	
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✓	72	EVANS *The Tip of the Iceberg:RAMAC Virtual Array – Part I,* Technical Support, March 1997, pp. 1-4	

Examiner Signature	Bryce P. Bogue	Date Considered	6/12/06

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Sheet 4 of 6

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Filing Date	November 24, 2003
First Named Inventor	Peter F. Corbett et al.
Group Art Unit	Not yet assigned
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	81	HELLERSTEIN, LISA, ET AL,. *Coding Techniques for Handling Failures in Large Disk Arrays.* In Algorithmica Vol. 2, Nr. 3, 182-208 (1994)	
	82	HUGHES, JAMES, ET AL., *High Performance RAIT* , Tenth NASA Goddard Conference on Mass Storage Systems and Technologies and Nineteenth IEEE Symposium on Mass Storage Systems, Adelphi, Maryland, USA, April 2002	
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	84	KATZ, RANDY H. ET AL., *Disk System Architectures for High Performance Computing*, undated	
	85	KENT, JACK ET AL., Optimizing Shadow Recovery Algorithms, *IEEE Transactions on Software Engineering*, 14(2):155-168, Feb. 1988.	

Examiner Signature	Bruce P. Bonner	Date Considered	6/19/06

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BPB	86	KIM, MICHELLE Y., *Synchronized Disk Interleaving*, IEEE Transactions on Computers, C-35(11):978-988, November 1986	
	87	KIM, MICHELLE, ET AL., *Asynchronous Disk Interleaving Approximating Access Delays*, IEEE Transactions on Computers, vol. 40, no.7, July 1991 , pp. 801-810.	
	88	LAWLOR, F. D., *Efficient Mass Storage Parity Recovery Mechanism*, IBM Technical Disclosure Bulletin 24(2):986-987, July 1981	
	89	LEE, EDWARD K., ET AL., *RAID-II: A Scalable Storage Architecture for High-Bandwidth Network File Service*, Technical Report UCB/CSD 92/672, (February 1992)	
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	91	LIVNY, MIRON, ET AL., *Multi-Disk Management Algorithms*, In Proceedings of the ACM International Conference on Measurement and Modeling of Computer Systems (SIGMETRICS), pages 69- 77, Banff, Alberta, Canada, May 1987	
	92	MEADOR, WES E., *Disk Array Systems*, Proceedings of COMPCON, 1989, pp. 143-146	
	93	NG, SPENCER, ET AL., *Trade-Offs Between Devices and Paths in Achieving Disk Interleaving*, IEEE International Symposium on Computer Architecture, 1988, pp. 196-201	
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	95	PARK, ARVIN, ET AL., *Providing Fault Tolerance In Parallel Secondary Storage Systems*, Technical Report CS-TR-057-86, Princeton, November, 1986	
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	98	PATTERSON, D., ET AL., *A Case for Redundant Arrays of Inexpensive Disks (RAID)*, SIGMOD International Conference on Management of Data, Chicago, IL, USA, 1-3 June 1988, SIGMOD RECORD (17)3:109-16 (Sept. 1988)	

Examiner Signature	Bruce P. Bogner	Date Considered	6/19/06

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BPB	99	PATTERSON, DAVID A., ET AL., *Introduction to Redundant Arrays of Inexpensive Disks (RAID).* In IEEE Spring 89 COMPCON, San Francisco, IEEE Computer Society Press, February 27 - March 3, 1989, pp. 112-117	
	100	STORAGESUITE "Performance Without Compromise: The Virtual Storage Architecture,"catalogue, 1997	
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	104	SHIRRIFF, KENNETH W., *Sawmill:A Logging File System for a High-Performance RAID Disk Array,* CSD-95-862, January 1995	
	105	STONEBRAKER, MICHAEL, ET AL., *The Design of XPRS,* Proceedings of the 14th VLDB Conference, LA, CA (1988)	
	106	TANABE, TAKAYA, ET AL, *Redundant Optical Storage System Using DVD-RAM Library,* IEEE Symposium on Mass Storage, pp. 80-87, March 1999	
	107	TEKROM – "About RAID 6"	
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Examiner Signature	Bruce P. Bogner	Date Considered	6/12/06

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